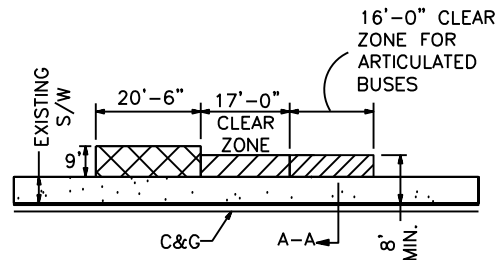
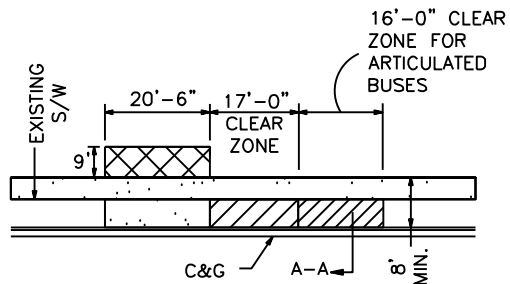


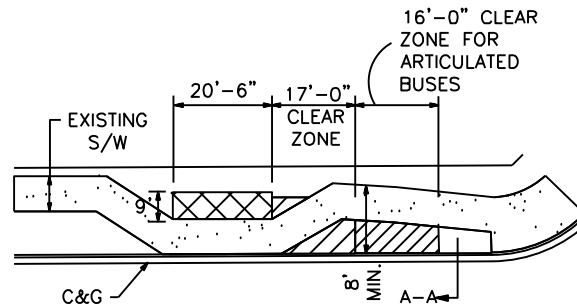
ADJACENT TO MEANDERING SIDEWALK



ADJACENT TO CURB SIDEWALK



ADJACENT TO PARKWAY SIDEWALK

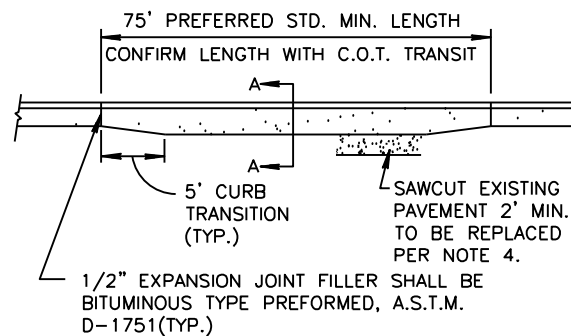


DIVERSION OF EXISTING SIDEWALK

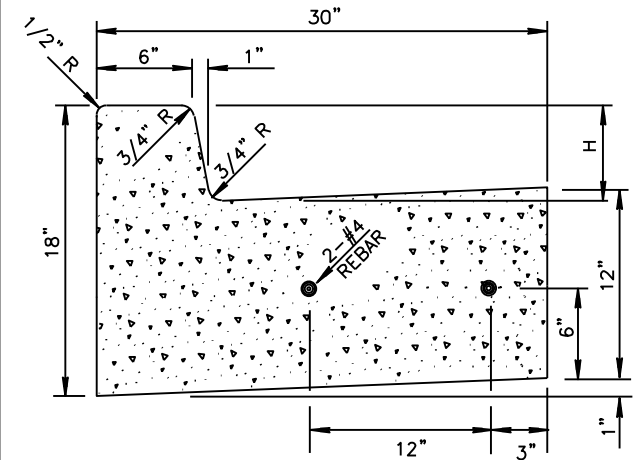
(DIVERSION OF SIDEWALK SHOULD BE MINIMIZED)

KEY:

- EXISTING SIDEWALK
- ACCESSIBLE CLEAR ZONE
- BUS SHELTER PAD FOUNDATION



CURB AND GUTTER TRANSITION



SECTION A-A
SPECIAL C&G ADJACENT
TO BUS STOP

NOTES:

1. H=7" OR MATCH EXISTING CURB & GUTTER
2. CLASS "AA" CONCRETE
3. SAME NOTES AS MAG STD. DTL. NO. 220-1 TYPE A
4. PAVEMENT REPLACEMENT SHALL BE MIN. 3" THICK PER DETAIL T-312 OR T-313 ON 12" ABC ON MIN. 6" OF PREPARED SUBGRADE, OR MATCH EXISTING (WHICHEVER IS GREATER).
5. BUS STOP PAD LOCATIONS DEPICTED REPRESENT THOSE REQUIRED FOR TYPE "B" SHELTERS

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

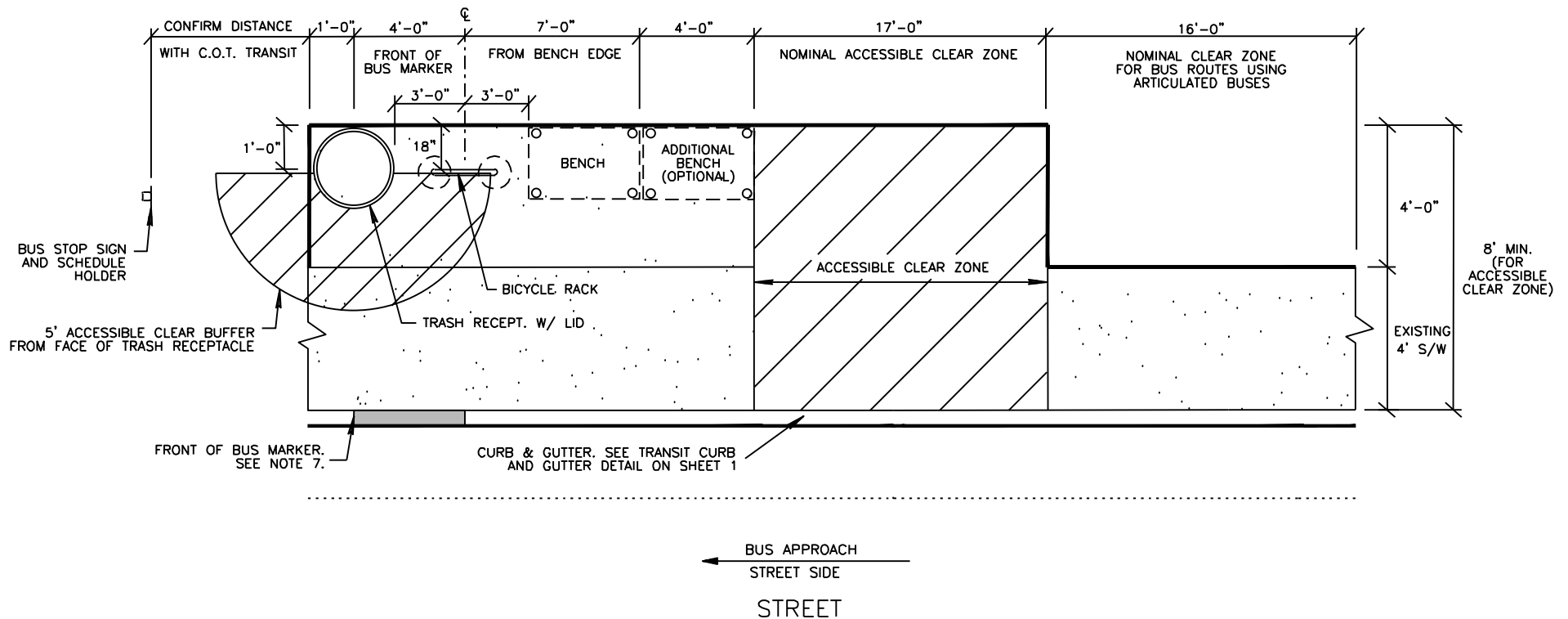
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS SHELTER FOUNDATION LOCATION OPTIONS AND
SPECIAL CURB & GUTTER
N.T.S.

DETAIL T-654
1 OF 21
REVISED 2015



NOTES:

1. TRASH RECEPTACLE WITH LID - CONFIRM MFG & MODEL NO. W/ C.O.T. TRANSIT DIVISION DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE SLAB.
2. BENCH - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE
3. BICYCLE RACK - PER CITY OF TEMPE STD. DETAIL T-578
4. BUS STOP SIGN - PLACEMENT TO BE FIELD DETERMINED AND CONFIRMED W/ C.O.T. TRANSIT DIVISION. BUS STOP SIGN POLE TO BE 1-3/4" SQUARE, 1" O.C. PERFORATED, AND POWDER-COATED TERRA BROWN (RAL 8028)
5. SCHEDULE HOLDER - TIP RCH-22 SCHEDULE HOLDER WITH TWO MOUNTING HOLES DRILLED AND TAPPED TO ACCEPT 5/16-18 THREADED BOLT
6. ALL EXISTING LANDSCAPING AREAS BARRING THE ADA CLEAR ZONE PAVEMENT FROM THE BACK OF THE CURB MUST BE FILLED IN WITH CONCRETE SIDEWALK
7. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

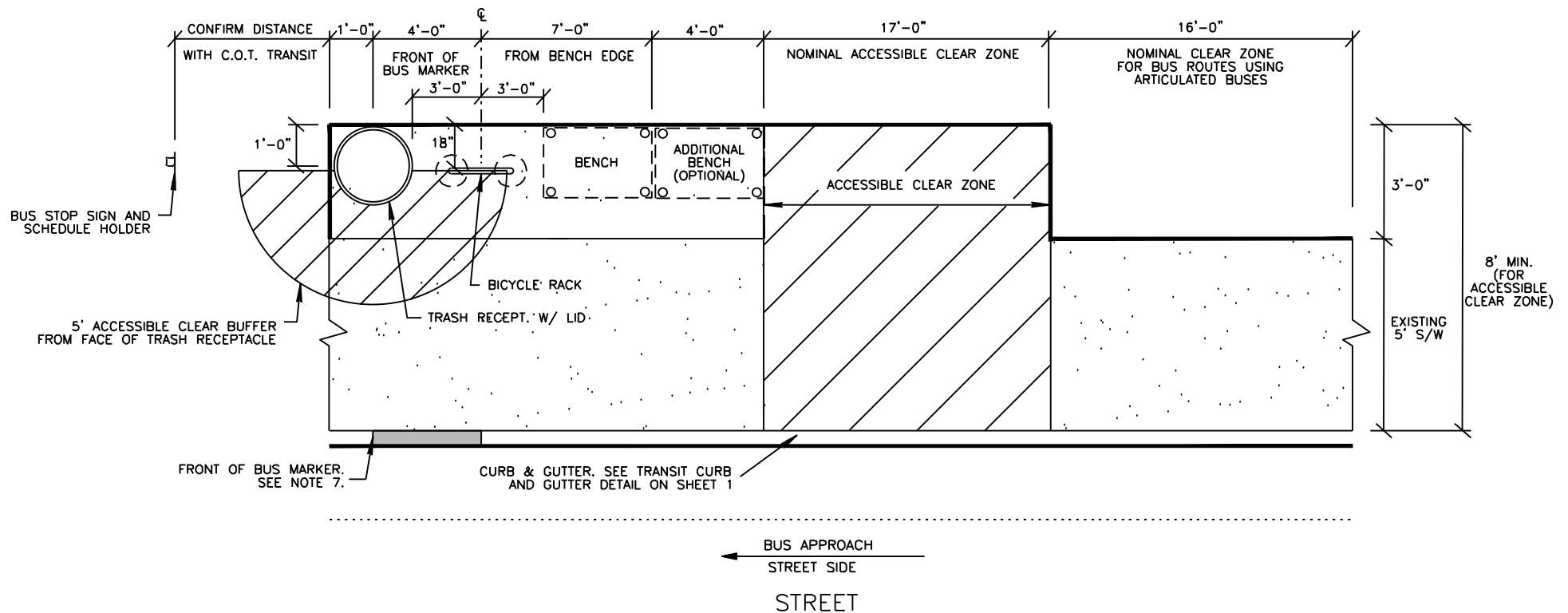
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

FURNITURE CONFIGURATION FOR BUS STOPS
WITHOUT SHELTER, 4' EXISTING SIDEWALK
N.T.S.

DETAIL T-654
3 OF 21
REVISED 2015



NOTES:

1. TRASH RECEPTACLE WITH LID - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE SLAB.
2. BENCH - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE
3. BICYCLE RACK - PER CITY OF TEMPE STD. DETAIL T-578
4. BUS STOP SIGN - PLACEMENT TO BE FIELD DETERMINED AND CONFIRMED W/ C.O.T. TRANSIT DIVISION. BUS STOP SIGN POLE TO BE 1-3/4" SQUARE, 1" O.C. PERFORATED, AND POWDER-COATED TERRA BROWN (RAL 8028)
5. SCHEDULE HOLDER - TIP RCH-22 SCHEDULE HOLDER WITH TWO MOUNTING HOLES DRILLED AND TAPPED TO ACCEPT 5/16-18 THREADED BOLT
6. ALL EXISTING LANDSCAPING AREAS BARRING THE ADA CLEAR ZONE PAVEMENT FROM THE BACK OF THE CURB MUST BE FILLED IN WITH CONCRETE SIDEWALK
7. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

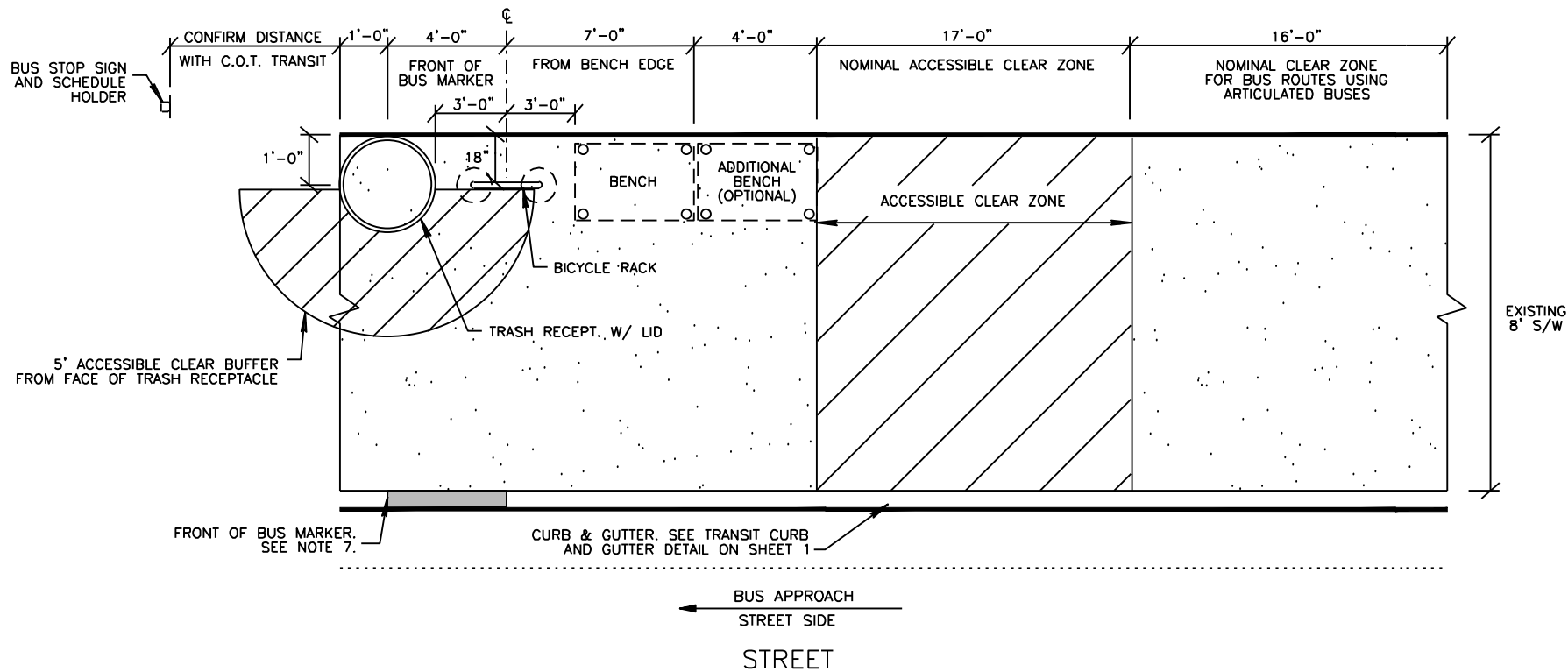
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

FURNITURE CONFIGURATION FOR BUS STOPS
WITHOUT SHELTER, 5' EXISTING SIDEWALK
N.T.S.

DETAIL T-654
4 OF 21
REVISED 2015



NOTES:

1. TRASH RECEPTACLE WITH LID - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE SLAB.
2. BENCH - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE
3. BICYCLE RACK - PER CITY OF TEMPE STD. DETAIL T-578
4. BUS STOP SIGN - PLACEMENT TO BE FIELD DETERMINED AND CONFIRMED W/ C.O.T. TRANSIT DIVISION. BUS STOP SIGN POLE TO BE 1-3/4" SQUARE, 1" O.C. PERFORATED, AND POWDER-COATED TERRA BROWN (RAL 8028)
5. SCHEDULE HOLDER - TIP RCH-22 SCHEDULE HOLDER WITH TWO MOUNTING HOLES DRILLED AND TAPPED TO ACCEPT 5/16-18 THREADED BOLT
6. ALL EXISTING LANDSCAPING AREAS BARRING THE ADA CLEAR ZONE PAVEMENT FROM THE BACK OF THE CURB MUST BE FILLED IN WITH CONCRETE SIDEWALK
7. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

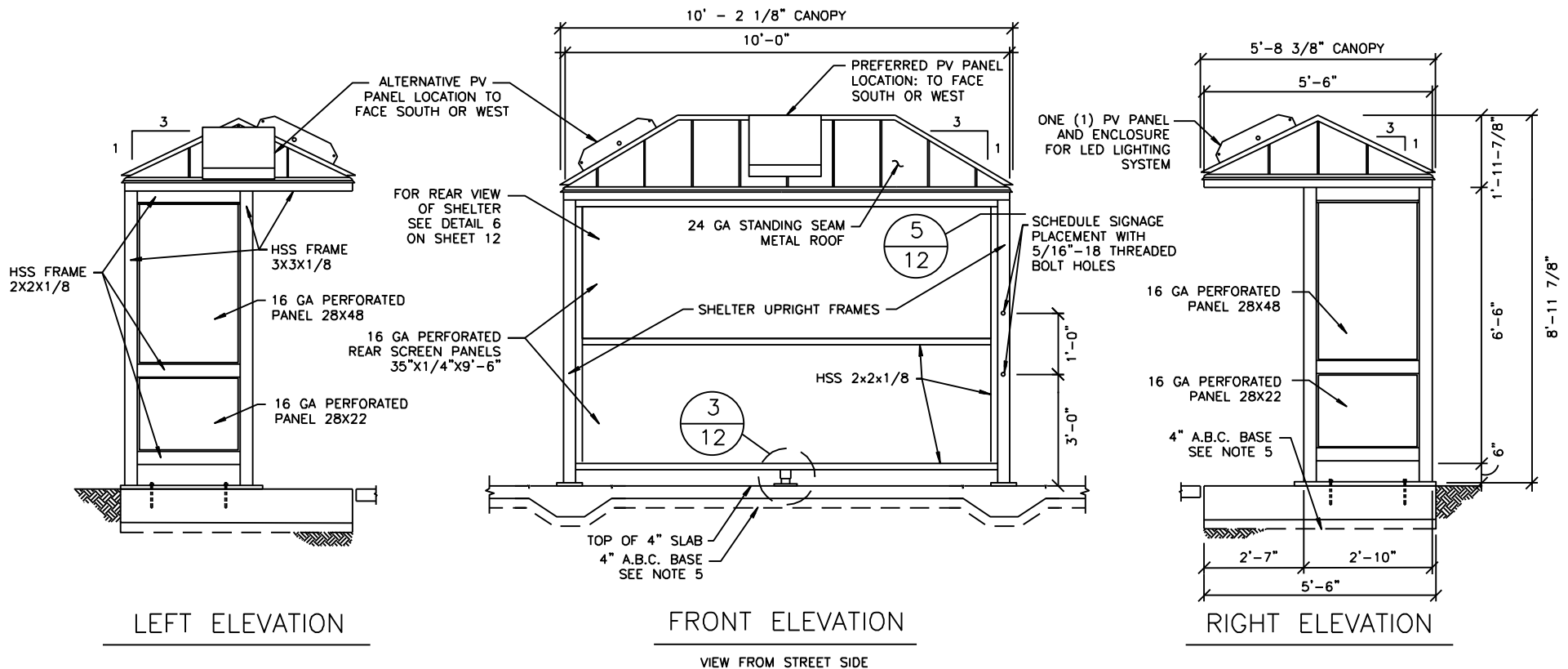
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

FURNITURE CONFIGURATION FOR BUS STOPS
WITHOUT SHELTER, 8' EXISTING SIDEWALK
N.T.S.

DETAIL T-654
5 OF 21
REVISED 2015



NOTES:

1. AN ARTIST-DESIGNED SHELTER MAY BE SUBSTITUTED FOR A TYPE "A" SHELTER BY APPROVAL OF CITY OF TEMPE TRANSIT DIVISION. HOWEVER, IT MUST INCORPORATE ALL THE FUNCTIONAL ELEMENTS INCLUDED IN THE TYPE "A" SHELTER. SEE TRANSIT & DESIGN REVIEW STAFF FOR DETAILS.
2. URBAN SOLAR CORP., MODEL RMS-80 WITH TWO (2) LED STRIP LIGHT FIXTURES, OR TEMPE APPROVED EQUAL. SEE SHEET 21 OF 21 FOR BUS SHELTER POWER AND LIGHT DETAIL.
3. SITE-SPECIFIC STYLE OF FURNITURE MAY BE REQUIRED IN SOME AREAS, AND ON ART SHELTERS. CONTACT THE TRANSIT DIVISION STAFF FOR DETAILS.
4. CITY OF TEMPE TRANSIT BUS SHELTERS SHALL BE PROVIDED WITH A GROUNDING SYSTEM THAT MAY CONSIST OF THE FOLLOWING METHOD: 25 FEET OF #4 STRANDED COPPER (UNINSULATED) INSTALLED IN THE BASE OF ONE OF THE UPRIGHT FOUNDATIONS. THE GROUNDING CONDUCTOR WILL EXTEND OUT OF THE POURED CONCRETE FOUNDATION WITH A LENGTH BETWEEN 2 AND 3 FEET. A FLAT FENDER WASHER WILL BE INSTALLED ON TOP OF THE CONDUCTOR WITH THE BOLT THROUGH THE FLAT WASHER AND SECURED IN THE TAPPED HOLE. GROUNDING METHOD WILL BE DONE IN ACCORDANCE WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
5. INSTALL 4" AGGREGATE BASE PER MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS SECTION 310, UNLESS ALTERNATIVE APPROVED DESIGN IS PROVIDED BY A SOILS REPORT.
6. ALL EXPANSION JOINTS SHALL BE INSTALLED PER MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS SECTION 340.

DESIGN NOTES:

GOVERNING CODE	2010 IBC
SOIL BEARING	1500 PSF
CONCRETE (ALL)	f'c28 = 2500 PSI
METALS	
ROLLED SHAPES AND PLATES	ASTM A36
PIPES	ASTM A53, GR.B
STRUCTURAL TUBING	ASTM A500, GR.C
10 GAGE BENT PLATE	ASTM A1011, GR.50
BOLTS	ASTM A307
ANCHOR BOLTS	ASTM F1554, GR.36
CONSTRUCTION TYPE	II-B
OCCUPANCY	B

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

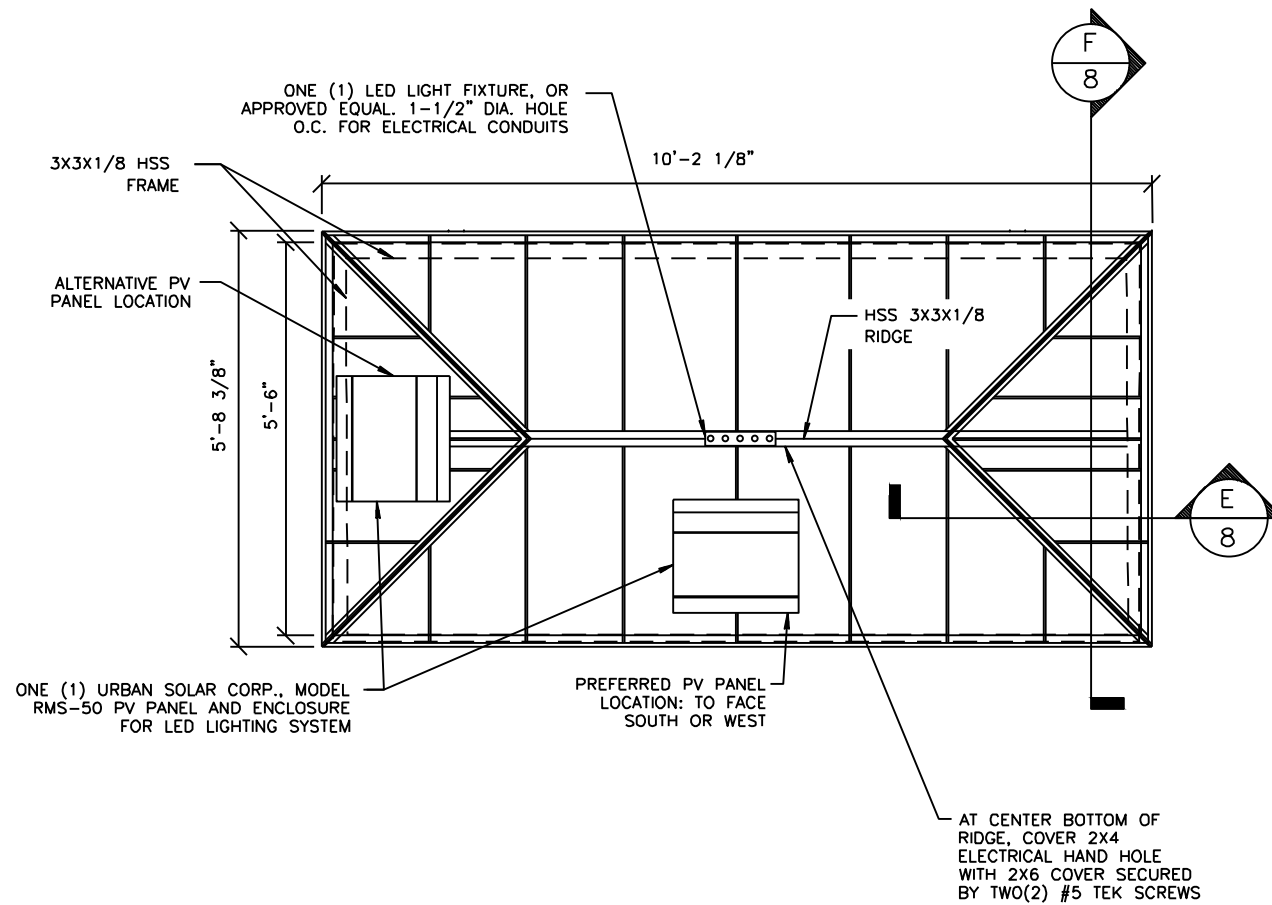
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "A" - ELEVATIONS
N.T.S.

DETAIL T-654
6 OF 21
REVISED 2015



NOTES:

1. STANDING SEAM METAL ROOF - 24 GA. "BERRIDGE" CEE-LOCK PANELS, TOP SIDE COLOR TO BE "COPPER-COTE", UNDERSIDE COLOR TO BE FACTORY "WHITE".

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

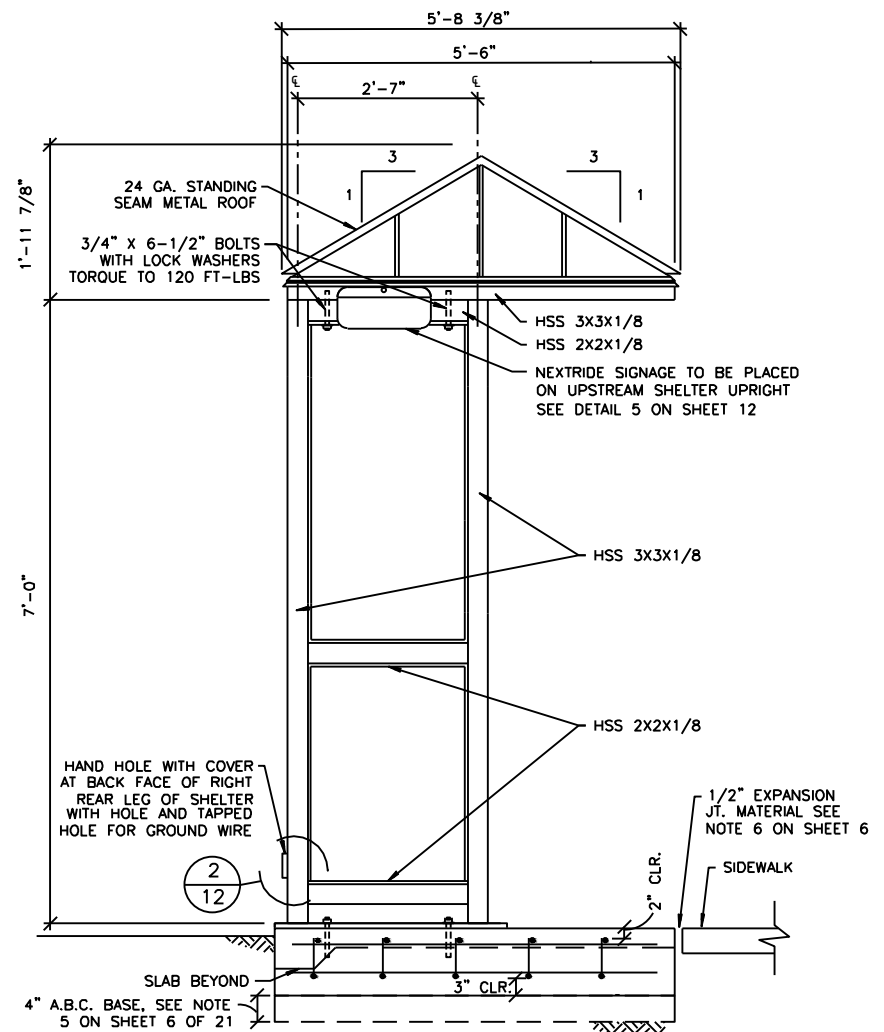
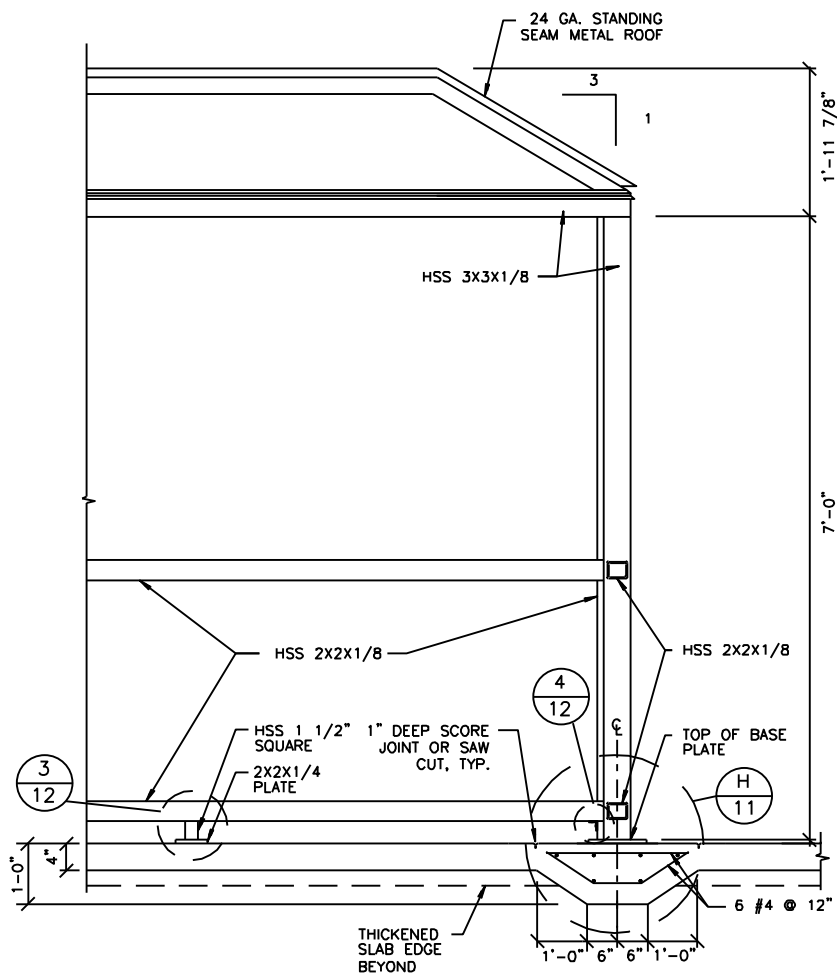
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

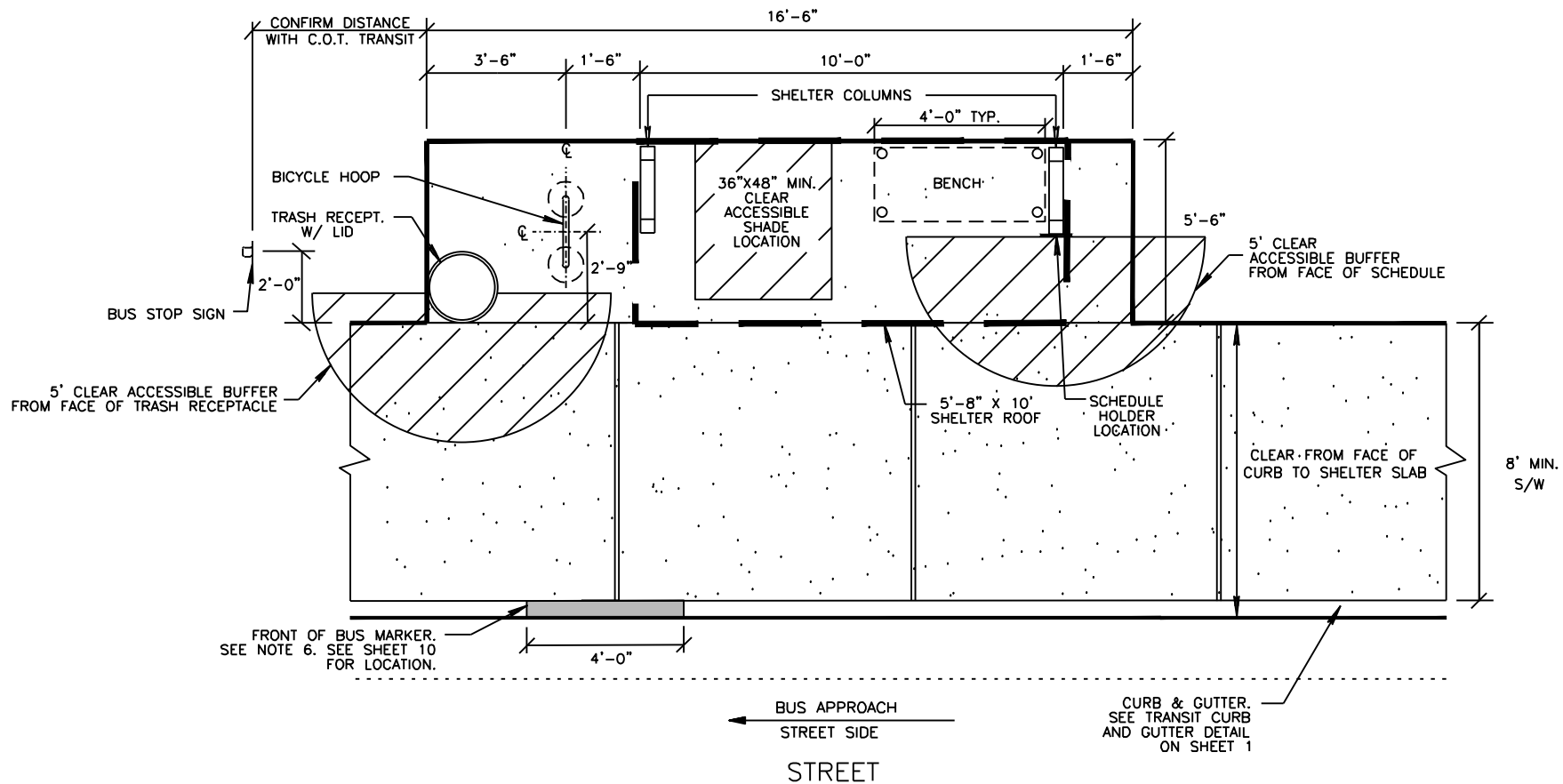
BUS STOP PASSENGER SHELTER TYPE "A" - ROOF PLAN
N.T.S.

DETAIL T-654
7 OF 21
REVISED 2015



DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE _____



NOTES:

1. ALL HSS FRAMES & INFILL PANELS TO BE PAINTED SHERWIN WILLIAMS COLOR: TEMPE BRONZE: #B65-T-184
2. TRASH RECEPTACLE WITH LID - CONFIRM MFG & MODEL NO. W/ C.O.T. TRANSIT DIVISION DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE SLAB
3. BENCH - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE
4. BICYCLE HOOP - PER CITY OF TEMPE STD. DETAIL T-578
5. SCHEDULE HOLDER - TIP RCH-22 SCHEDULE HOLDER WITH TWO MOUNTING HOLES DRILLED AND TAPPED TO ACCEPT 5/16-18 THREADED BOLT
6. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION.
7. BUS STOP SIGN - PLACEMENT TO BE FIELD DETERMINED AND CONFIRMED W/ C.O.T. TRANSIT DIVISION. BUS STOP SIGN POLE TO BE 1-3/4" SQUARE, 1" O.C. PERFORATED, AND POWDER-COATED TERRA BROWN (RAL 8028)

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

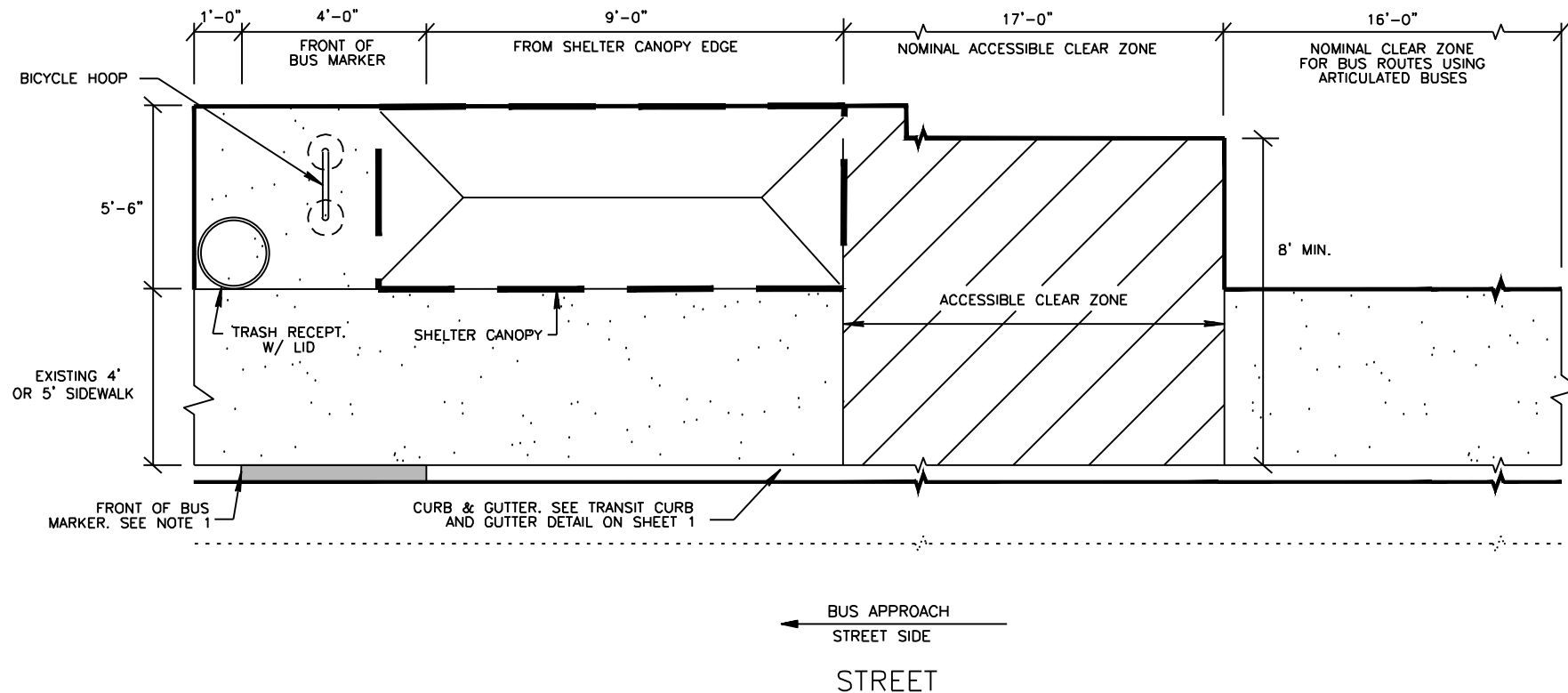
DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "A" - FURNITURE CONFIGURATION
N.T.S.

DETAIL T-654
9 OF 21
REVISED 2015



NOTES:

1. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION.

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

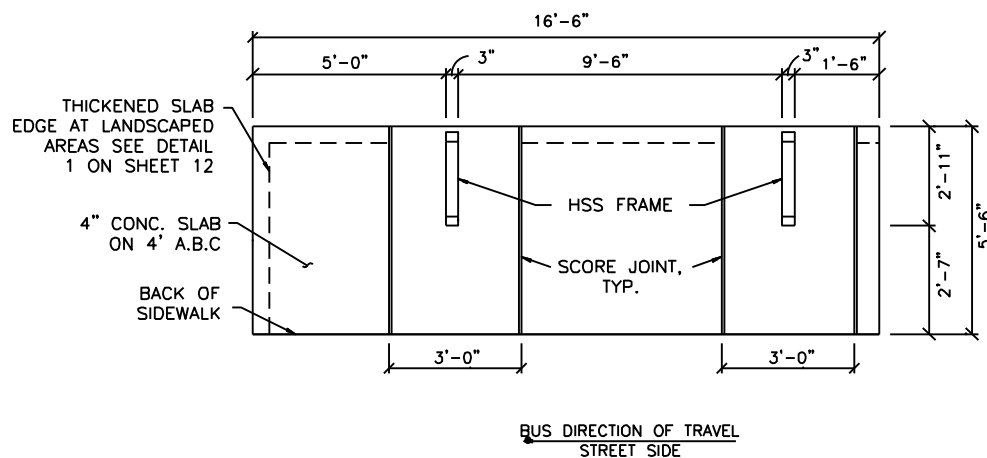
DATE



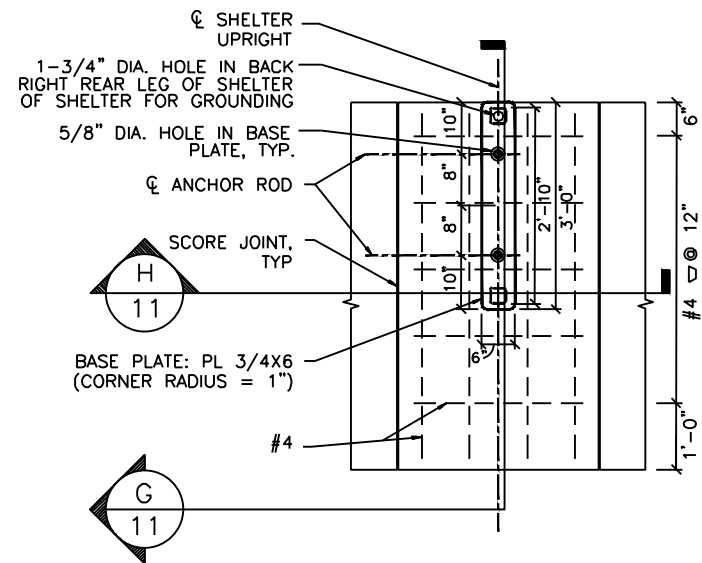
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "A" -
SITE LAYOUT WITH < 8' WIDE SIDEWALK
N.T.S.

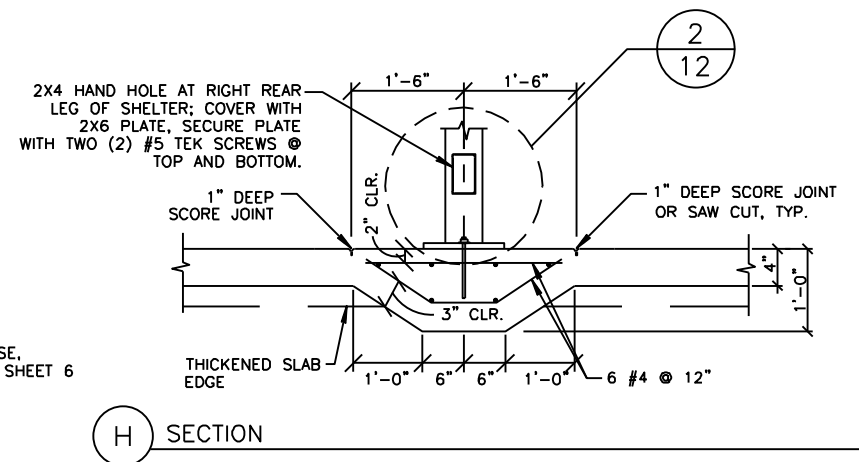
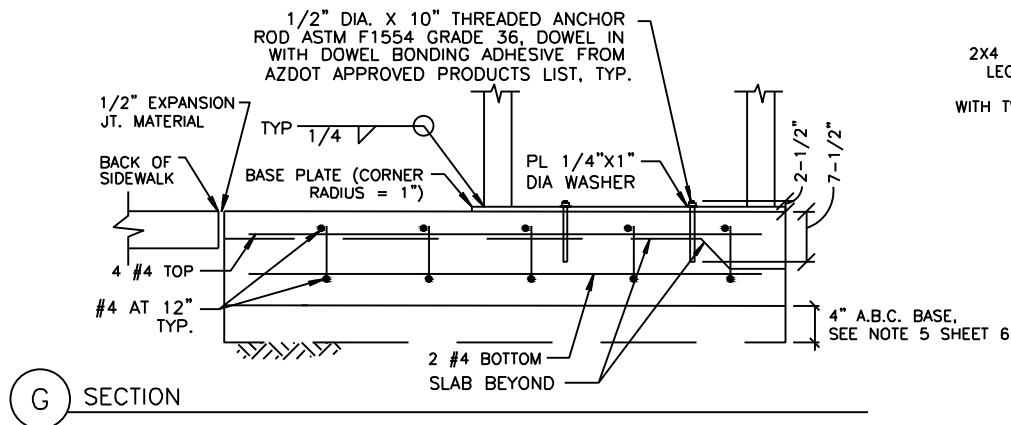
DETAIL T-654
10 OF 21
REVISED 2015



BUS SHELTER TYPE "A" – FOUNDATION PLAN

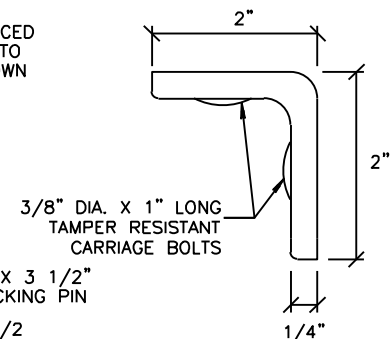
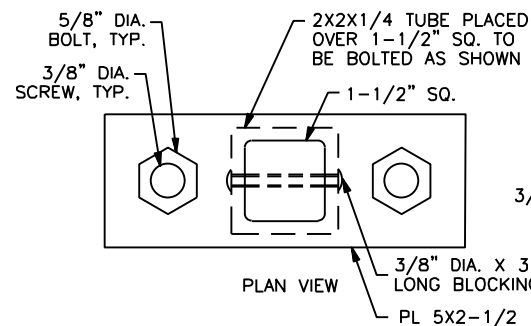
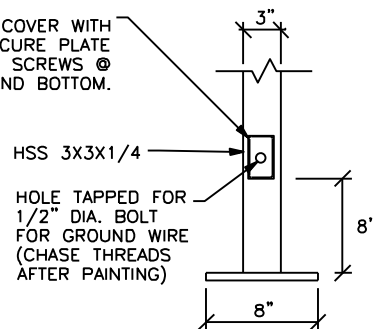
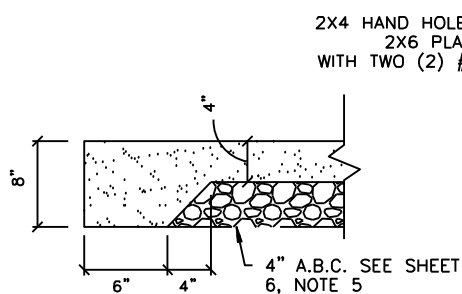


BASE PLATE PLAN



DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE

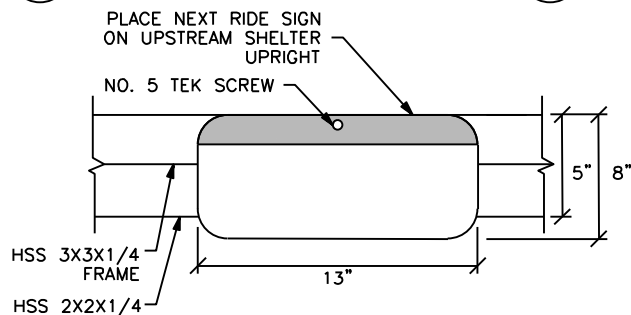


1 THICKENED EDGE (OPTIONAL)

2 HAND HOLE AND COVER

3 LAG BOLTS AT SCREEN SUPPORT

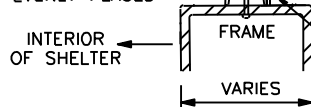
4 ANGLE SUPPORT



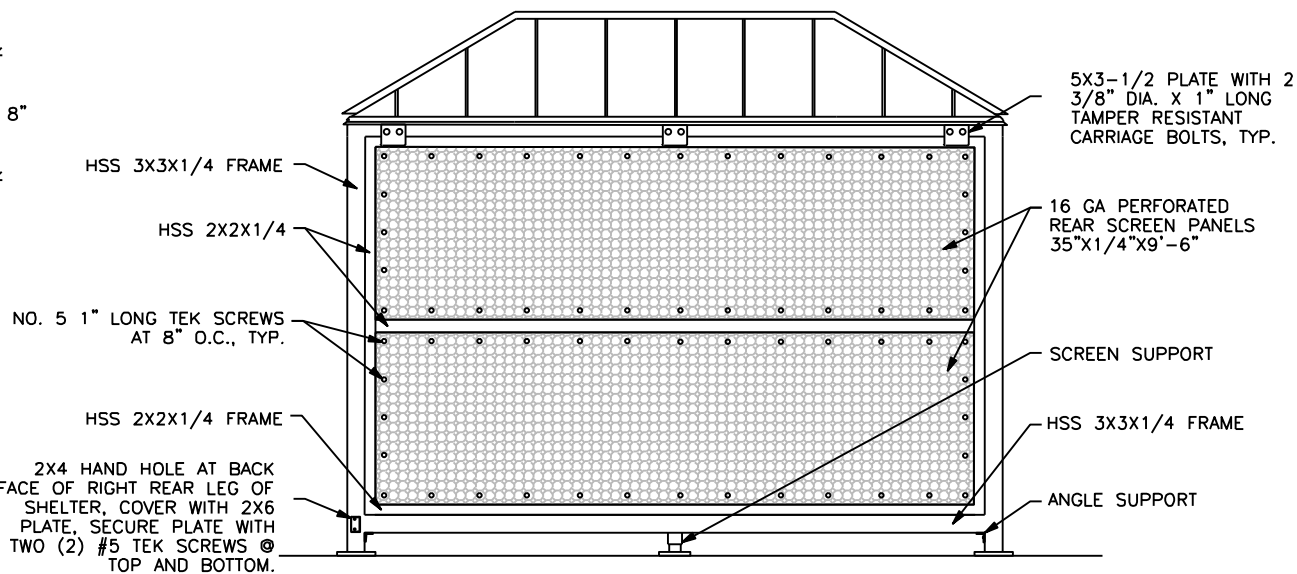
5 NEXTRIDE SIGN

PERF. PANEL 16 GA PANEL WITH 1/2" LEADING EDGE ALL AROUND TOTAL EXTERIOR DIM. 23.5X28.5. TOTAL RAISED INTERIOR DIM. 22X27. 1/4" DIA. PERFORATED HOLES. ALL PANEL LOCATIONS.

POP-RIVET 1"x1/2"x1/8" STRUCTURAL STEEL CHANNEL; POP-RIVET IN PLACE @ 16" O.C. MAX; EVENLY PLACED



7 PERFORATED PANEL TO FRAME



6 REAR VIEW OF SHELTER

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

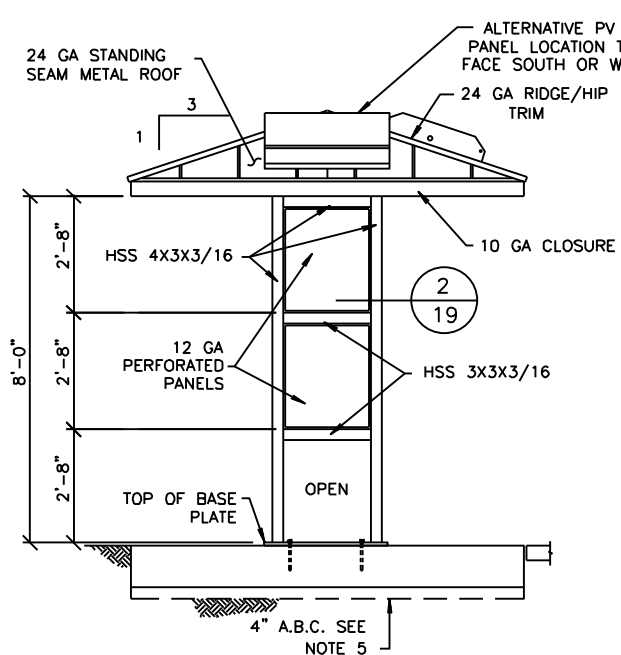
DATE



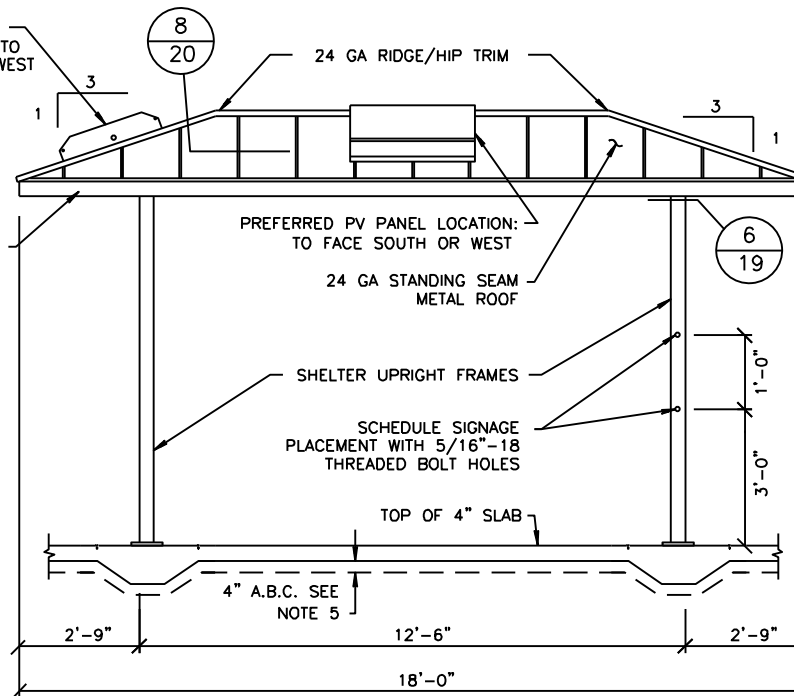
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS SHELTER TYPE "A" – TYPICAL DETAILS 1-6
N.T.S.

DETAIL T-654
12 OF 21
REVISED 2015

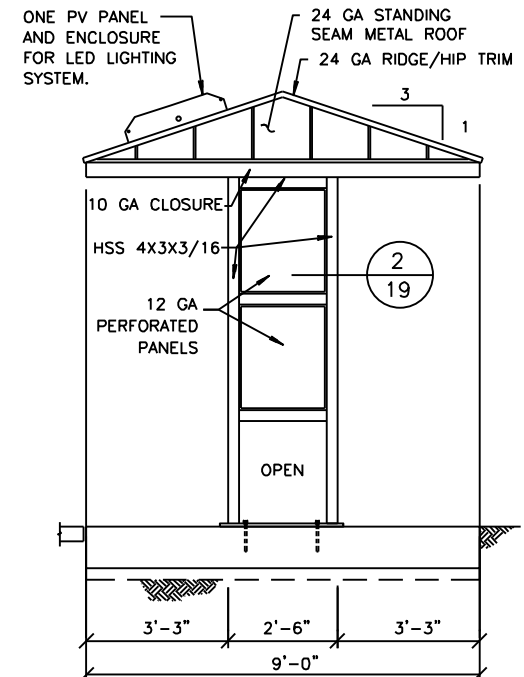


LEFT ELEVATION



FRONT ELEVATION

VIEW FROM STREET SIDE



RIGHT ELEVATION

NOTES:

1. AN ARTIST-DESIGNED SHELTER MAY BE SUBSTITUTED FOR A TYPE "B" SHELTER BY APPROVAL OF CITY OF TEMPE TRANSIT DIVISION. HOWEVER, IT MUST INCORPORATE ALL THE FUNCTIONAL ELEMENTS INCLUDED IN THE TYPE "B" SHELTER. SEE TRANSIT & DESIGN REVIEW STAFF FOR DETAILS.
2. URBAN SOLAR CORP., MODEL RMS-80 WITH TWO (2) LED STRIP LIGHT FIXTURES, OR TEMPE APPROVED EQUAL. SEE SHEET 21 OF 21 FOR BUS SHELTER POWER AND LIGHT DETAIL.
3. SITE-SPECIFIC STYLE OF FURNITURE MAY BE REQUIRED IN SOME AREAS, AND ON ART SHELTERS. CONTACT THE TRANSIT DIVISION STAFF FOR DETAILS.
4. CITY OF TEMPE TRANSIT BUS SHELTERS SHALL BE PROVIDED WITH A GROUNDING SYSTEM THAT MAY CONSIST OF THE FOLLOWING METHOD: 25 FEET OF #4 STRANDED COPPER (UNINSULATED) INSTALLED IN THE BASE OF ONE OF THE UPRIGHT FOUNDATIONS. THE GROUNDING CONDUCTOR WILL EXTEND OUT OF THE POURED CONCRETE FOUNDATION WITH A LENGTH BETWEEN 2 AND 3 FEET. A FLAT FENDER WASHER WILL BE INSTALLED ON TOP OF THE CONDUCTOR WITH THE BOLT THROUGH THE FLAT WASHER AND SECURED IN THE TAPPED HOLE. GROUNDING METHOD WILL BE DONE IN ACCORDANCE WITH ARTICLE 250 OF NATIONAL ELECTRICAL CODE.
5. INSTALL 4" AGGREGATE BASE PER MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS SECTION 310, UNLESS ALTERNATIVE APPROVED DESIGN IS PROVIDED BY A SOILS REPORT.
6. ALL EXPANSION JOINTS SHALL BE INSTALLED PER MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARD SPECIFICATIONS SECTION 340.

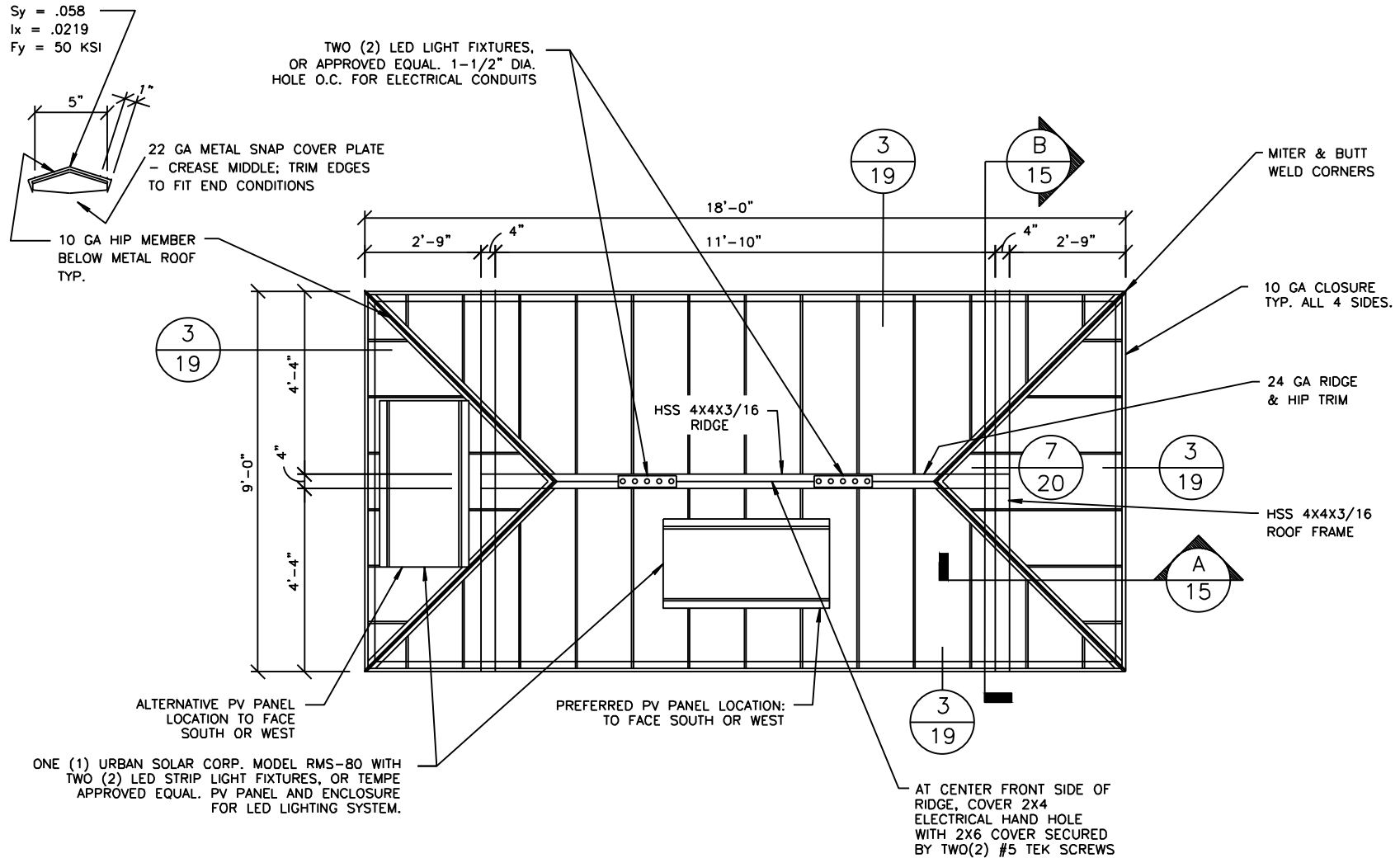
DESIGN NOTES:

GOVERNING CODE	2010 IBC
SOIL BEARING	1500 PSF
CONCRETE (ALL)	f'c28 = 2500 PSI
METALS	
ROLLED SHAPES AND PLATES	ASTM A36
PIPES	ASTM A53, GR.B
STRUCTURAL TUBING	ASTM A500, GR.C
10 GAGE BENT PLATE	ASTM A1011, GR.50
BOLTS	ASTM A307
ANCHOR BOLTS	ASTM F1554, GR.36
CONSTRUCTION TYPE	II-B
OCCUPANCY	U

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE

Sy = .058
Ix = .0219
Fy = 50 KSI



DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE



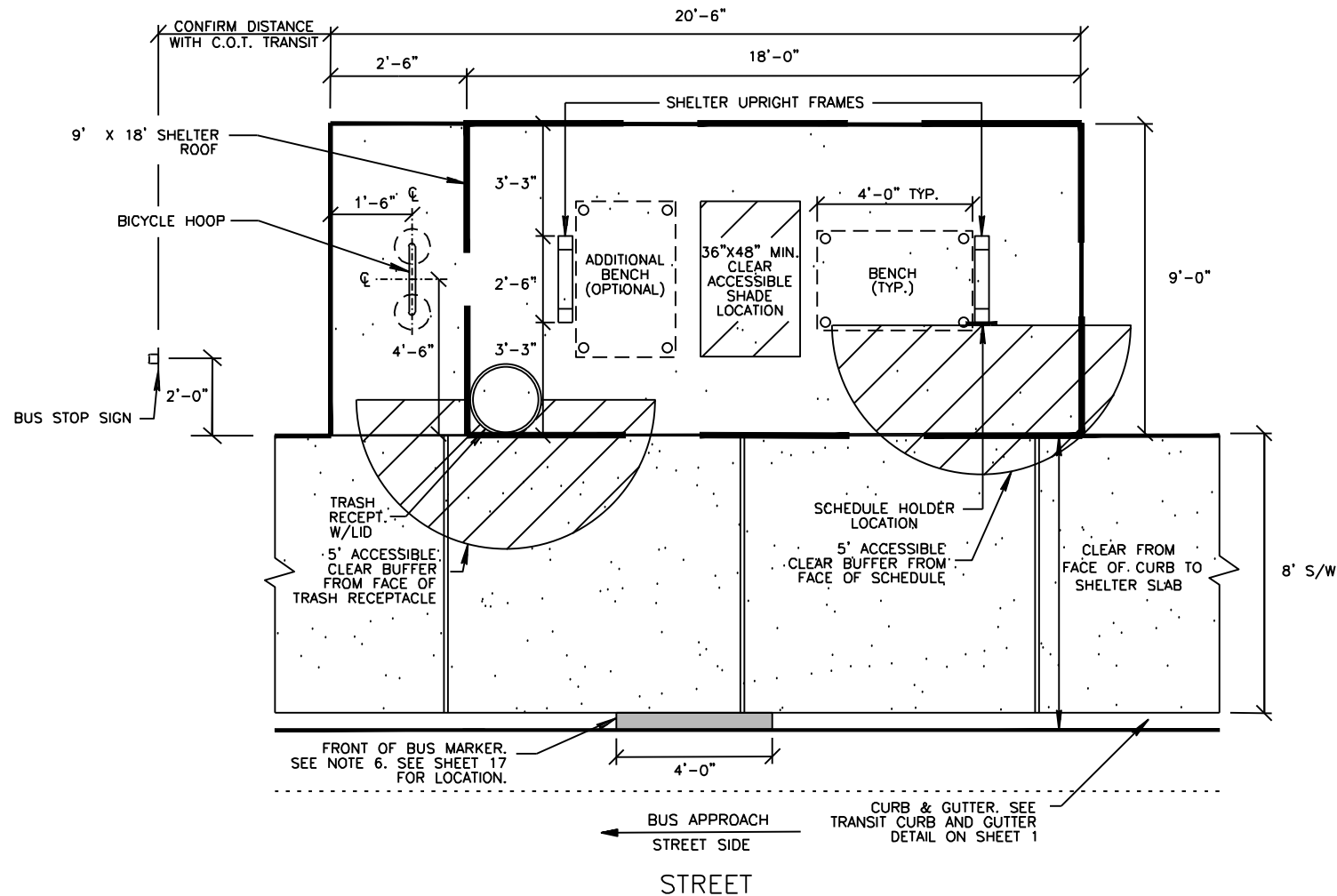
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "B" - ROOF PLAN
N.T.S.

DETAIL T-654
14 OF 21
REVISED 2015



DATE _____

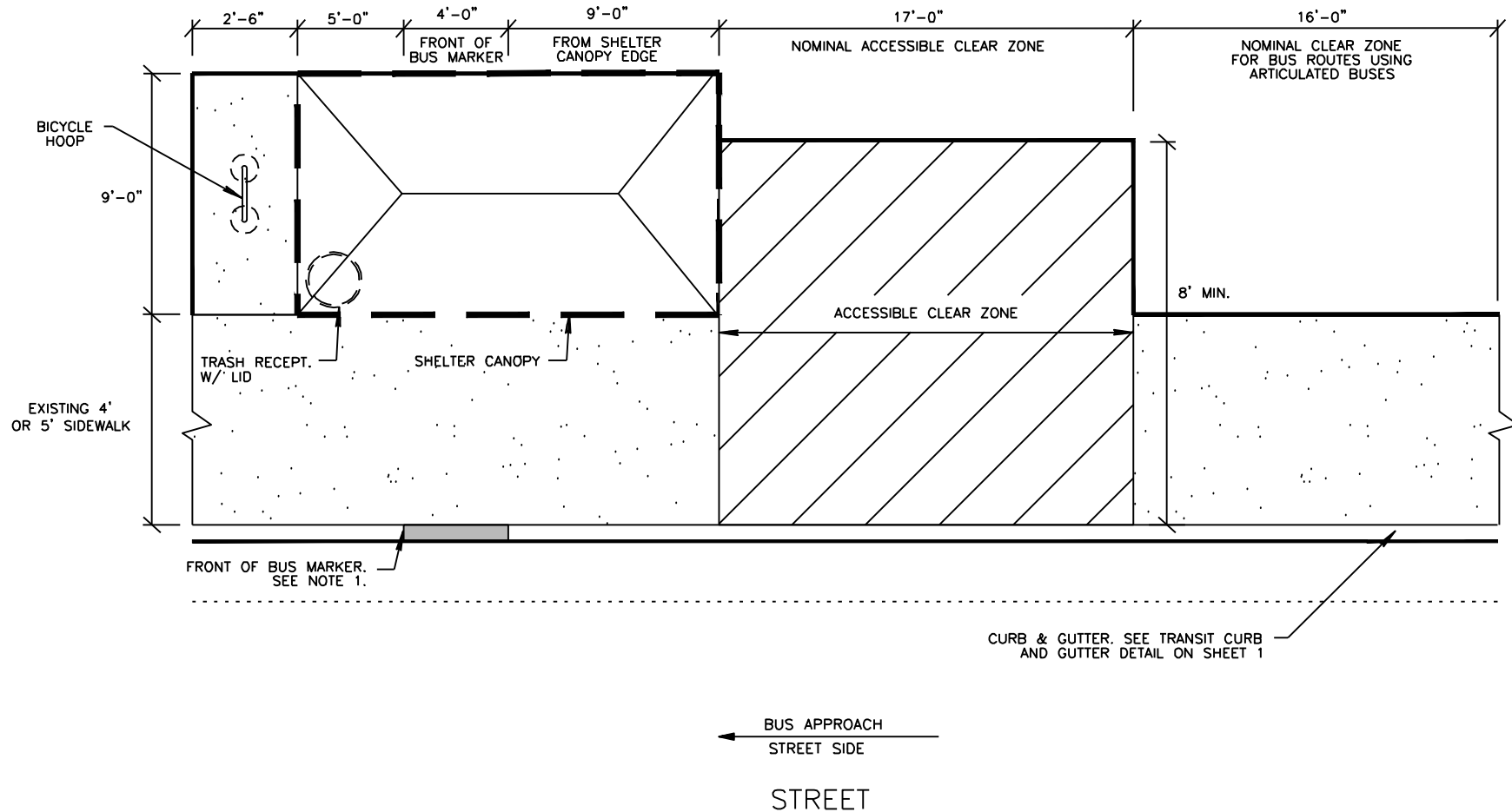


NOTES:

1. ALL HSS FRAMES & INFILL PANELS TO BE PAINTED SHERWIN WILLIAMS COLOR: TEMPE BRONZE: #B65-T-184
2. TRASH RECEPTACLE WITH LID - CONFIRM MFG & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE SLAB. LOCATE INSIDE CANOPY DRIPLINE
3. BENCH - CONFIRM MFG. & MODEL NO. W/ C.O.T. TRANSIT DIVISION. DRILLED CONCRETE EXPANSION ANCHOR BOLT TO CONCRETE
4. BICYCLE HOOP - PER CITY OF TEMPE STD. DETAIL T-578
5. SCHEDULE HOLDER - TIP RCH-22 SCHEDULE HOLDER WITH TWO MOUNTING HOLES DRILLED AND TAPPED TO ACCEPT 5/16-18 THREADED BOLT
6. FRONT OF BUS MARKER - 4" LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION.
7. BUS STOP SIGN - PLACEMENT TO BE FIELD DETERMINED AND CONFIRMED W/ C.O.T. TRANSIT DIVISION. BUS STOP SIGN POLE TO BE 1-3/4" SQUARE, PERFORATED, AND POWDER-COATED TERRA BROWN (RAL 8028)

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE



NOTES:

1. FRONT OF BUS MARKER - 4' LONG YELLOW 3M SERIES 380ES PAVEMENT MARKING PLACED ALONG TOP OF CURB. BY C.O.T. TRANSIT DIVISION.

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

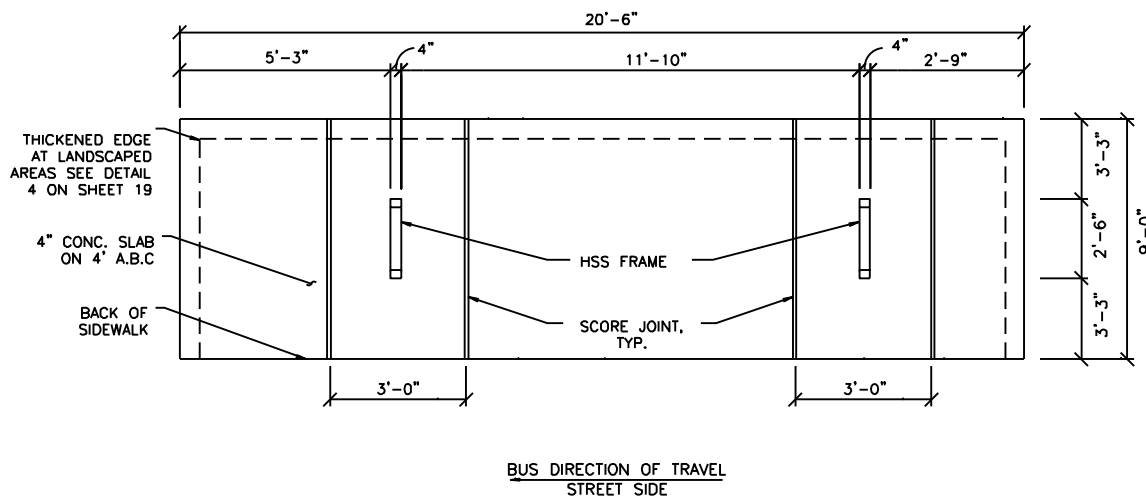
DATE



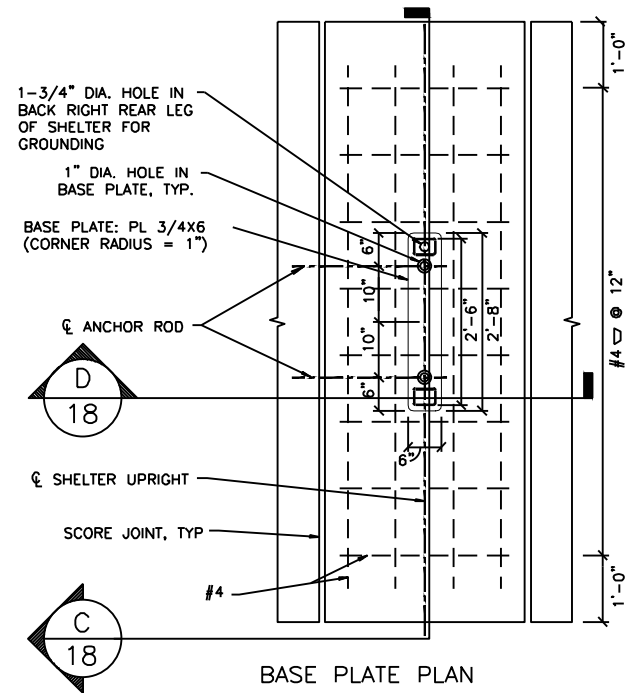
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "B" -
SITE LAYOUT WITH < 8' WIDE SIDEWALK
N.T.S.

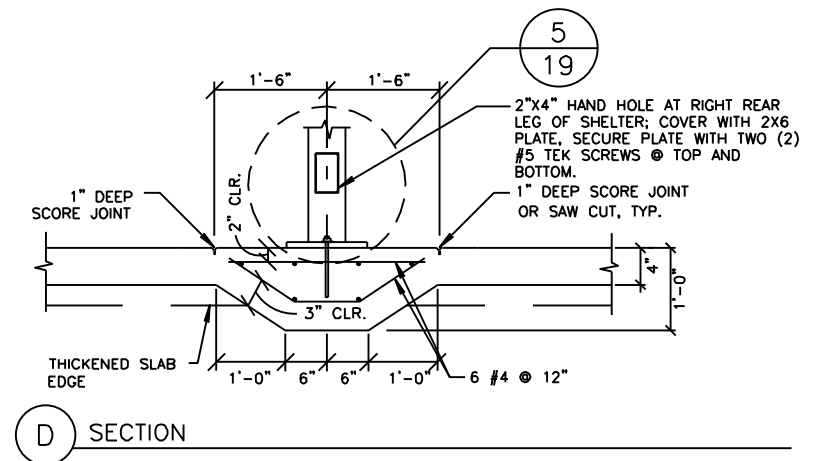
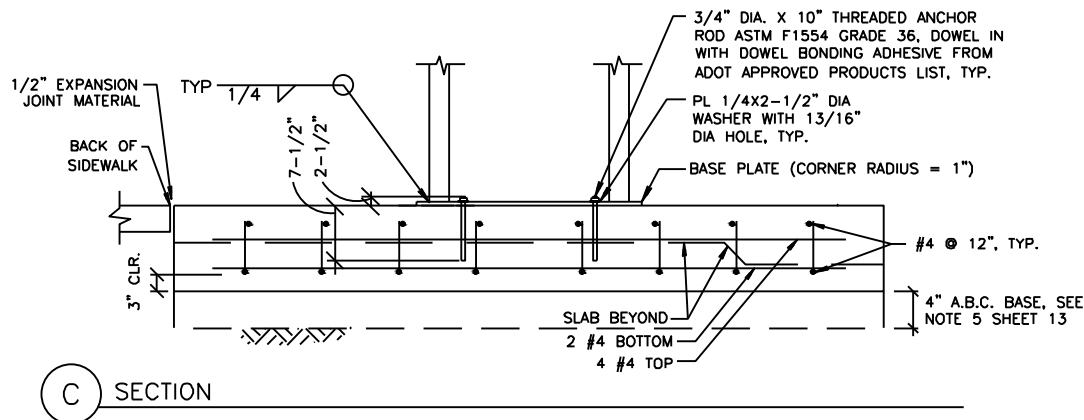
DETAIL T-654
17 OF 21
REVISED 2015



BUS SHELTER TYPE "B" - FOUNDATION PLAN

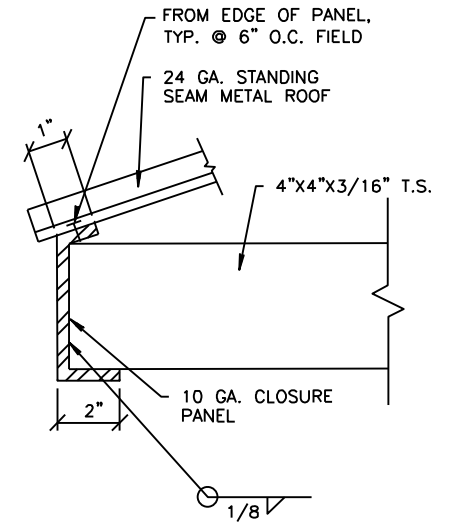
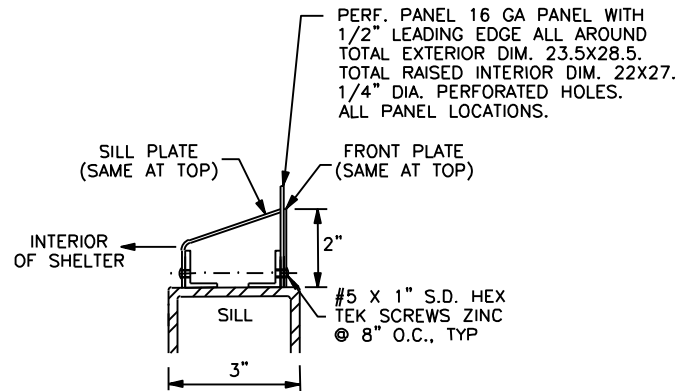


BASE PLATE PLAN



DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

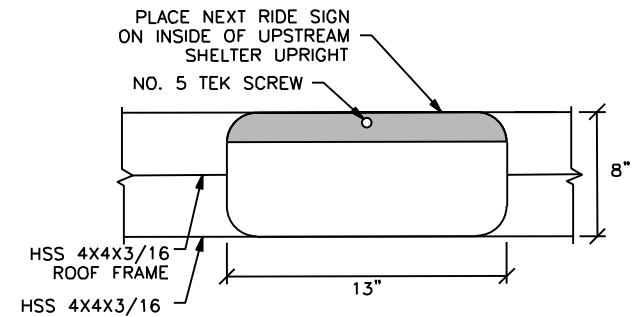
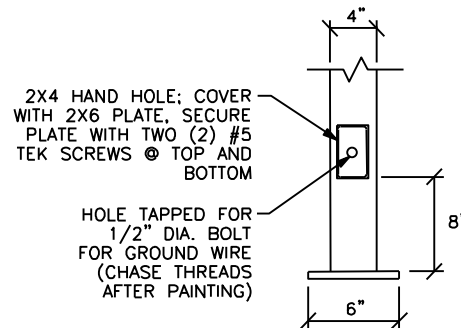
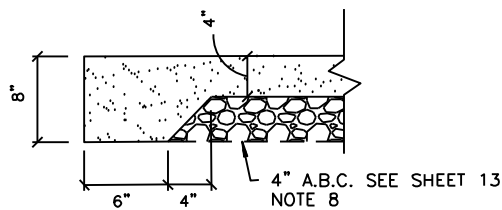
DATE



1 NOT USED

2 PERFORATED PANEL TO FRAME

3 TYPICAL CLOSURE



4 THICKENED EDGE (OPTIONAL)

5 HAND HOLE AND COVER

6 NEXTRIDE SIGN

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

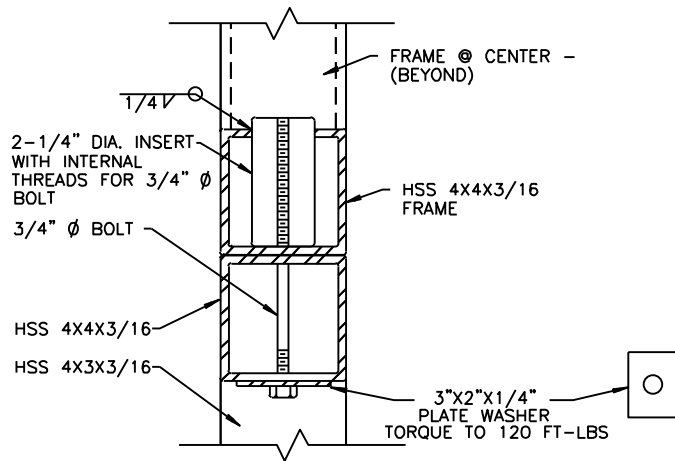
DATE



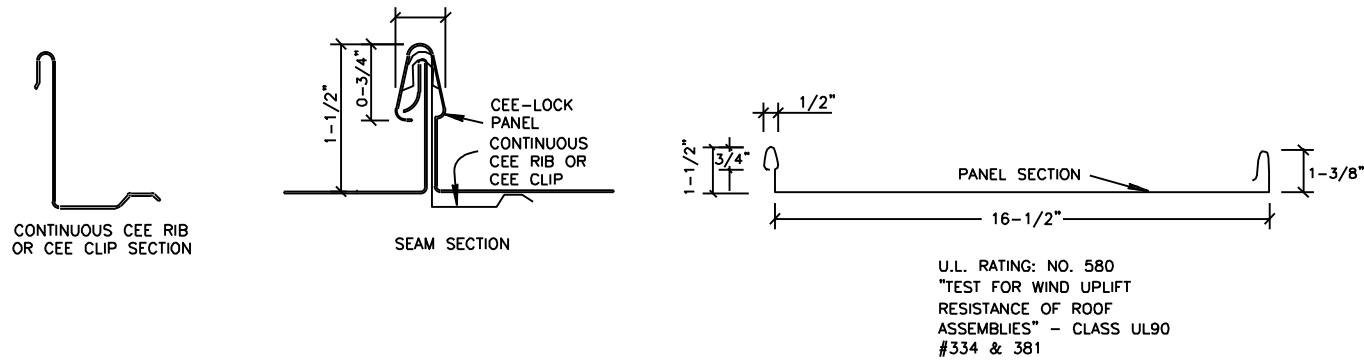
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "B" – TYPICAL DETAILS 1–6
N.T.S.

DETAIL T-654
19 OF 21
REVISED 2015



7 CONNECTION @ ROOF STRUCTURE



8 CEE - LOCK ROOF PANEL

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

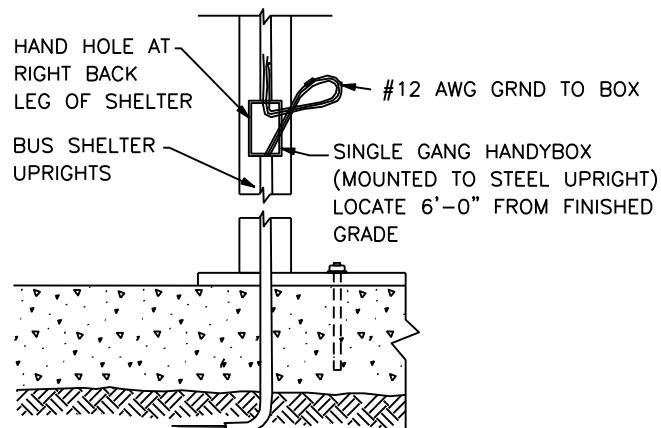
DATE



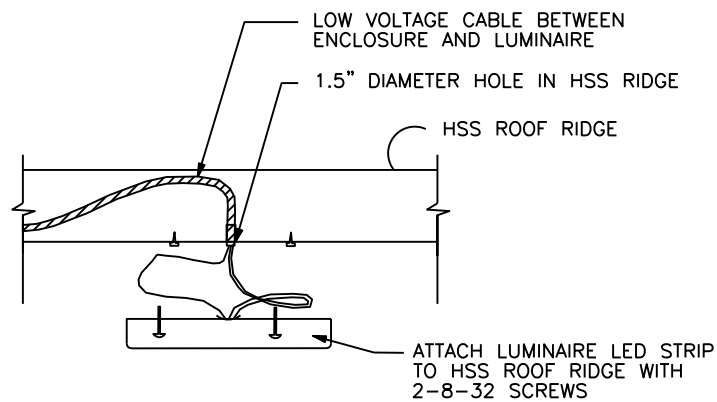
CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS STOP PASSENGER SHELTER TYPE "B" - TYPICAL DETAILS 7 & 8
N.T.S.

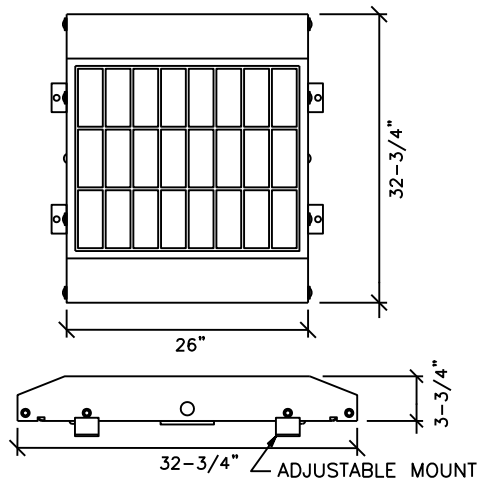
DETAIL T-654
20 OF 21
REVISED 2015



GROUNDING



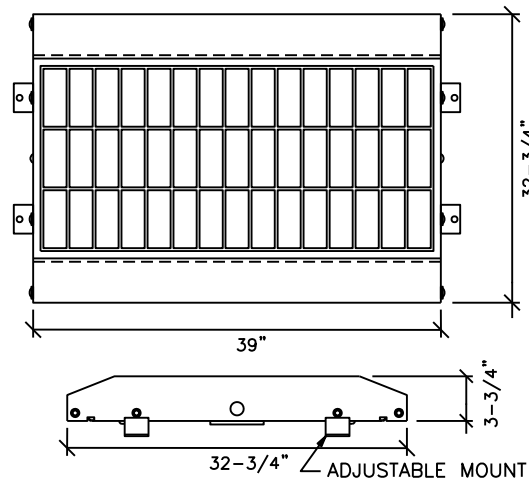
LIGHTING FIXTURE CONNECTION
12 VDC



NOTE: HINGES ORIENTED TOWARDS RIDGE LINE

ROOF MOUNTED 50 WATT
PV SYSTEM AND ENCLOSURE

FOR BUS SHELTER TYPE "A"



NOTE: HINGES ORIENTED TOWARDS RIDGE LINE

ROOF MOUNTED 80 WATT
PV SYSTEM AND ENCLOSURE

FOR BUS SHELTER TYPE "B"

NOTES:

1. ALL GROUNDING WILL BE INSTALLED IN COMPLIANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

DEPUTY PUBLIC WORKS DIRECTOR
CITY ENGINEER

DATE



CITY OF TEMPE
PUBLIC WORKS DEPARTMENT

BUS SHELTER TYPES "A" AND "B" LIGHTING DETAILS
N.T.S.

DETAIL T-654
21 OF 21
REVISED 2015